

FIG. 1

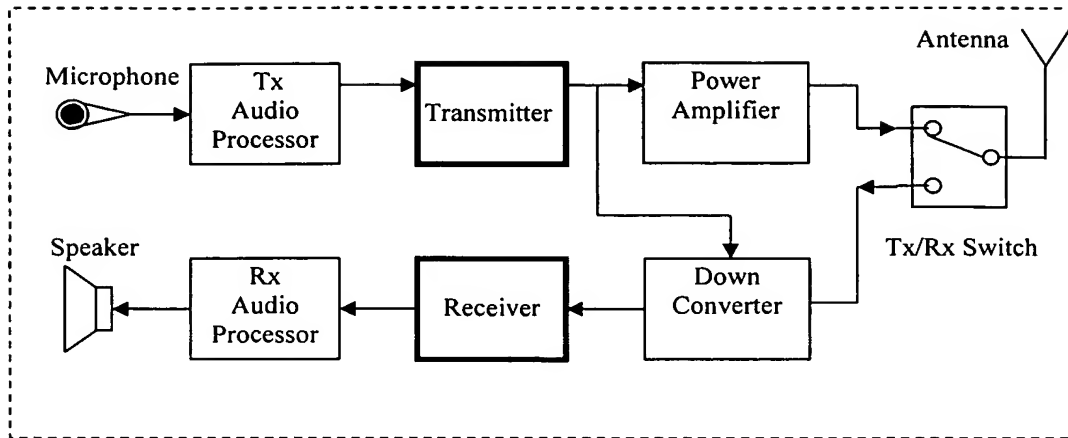


FIG. 2

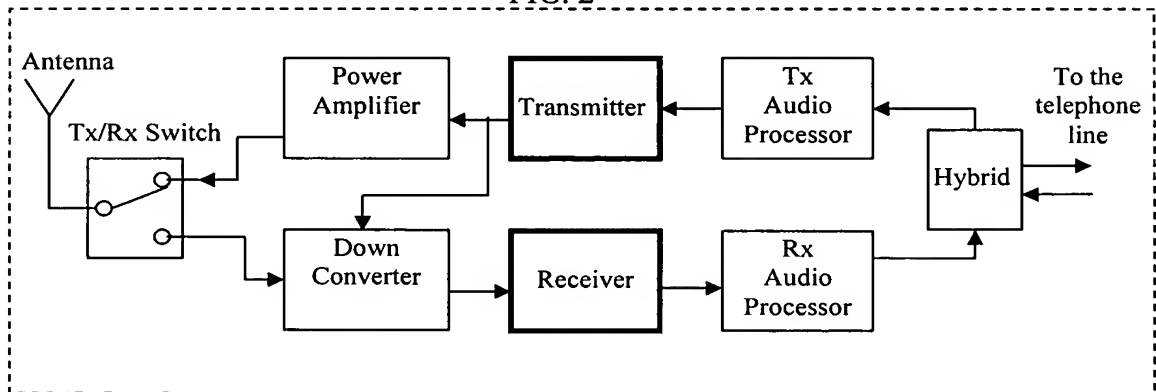


FIG. 3A

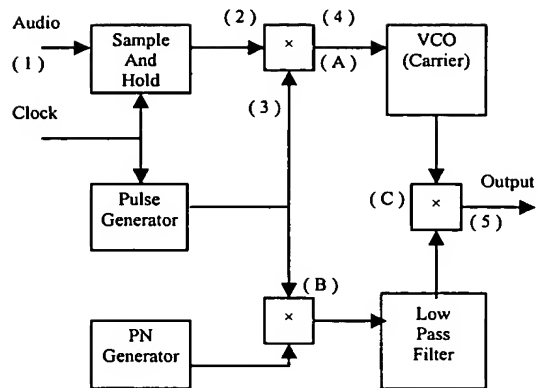


FIG. 3B

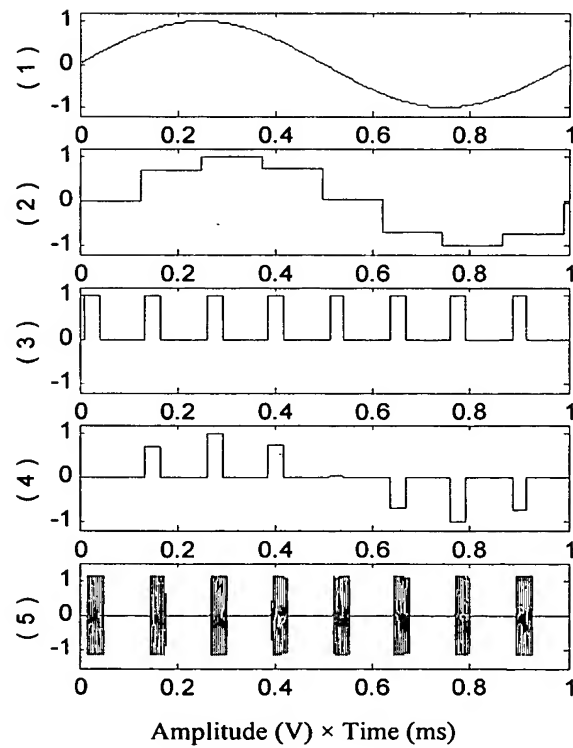


FIG. 4A

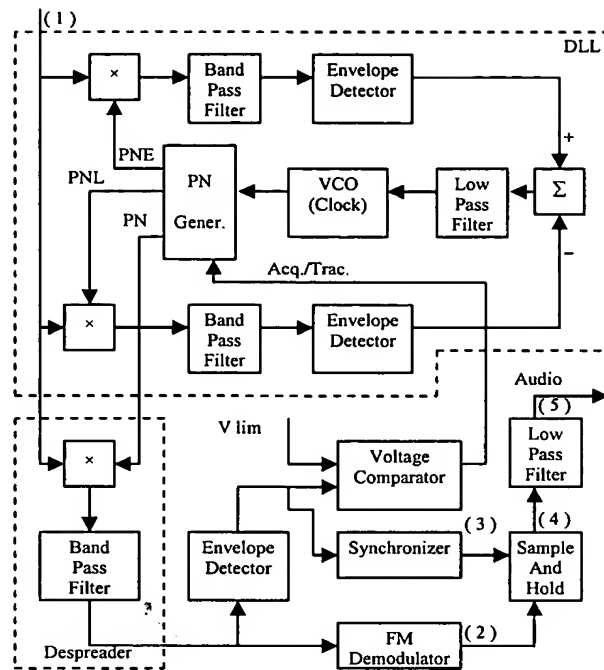


FIG. 4B

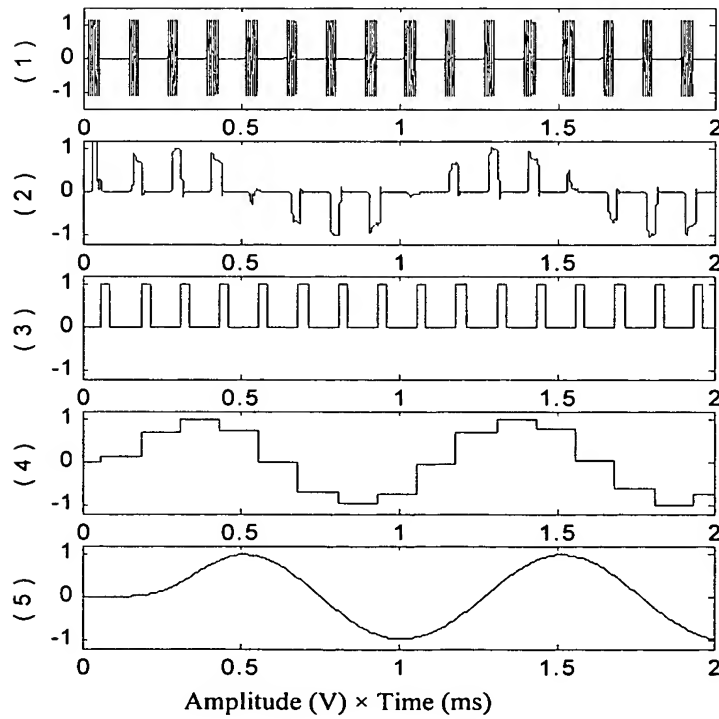


FIG. 5

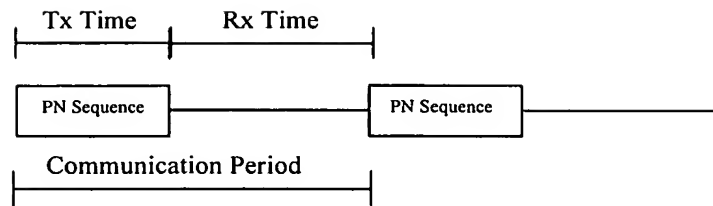


FIG. 6

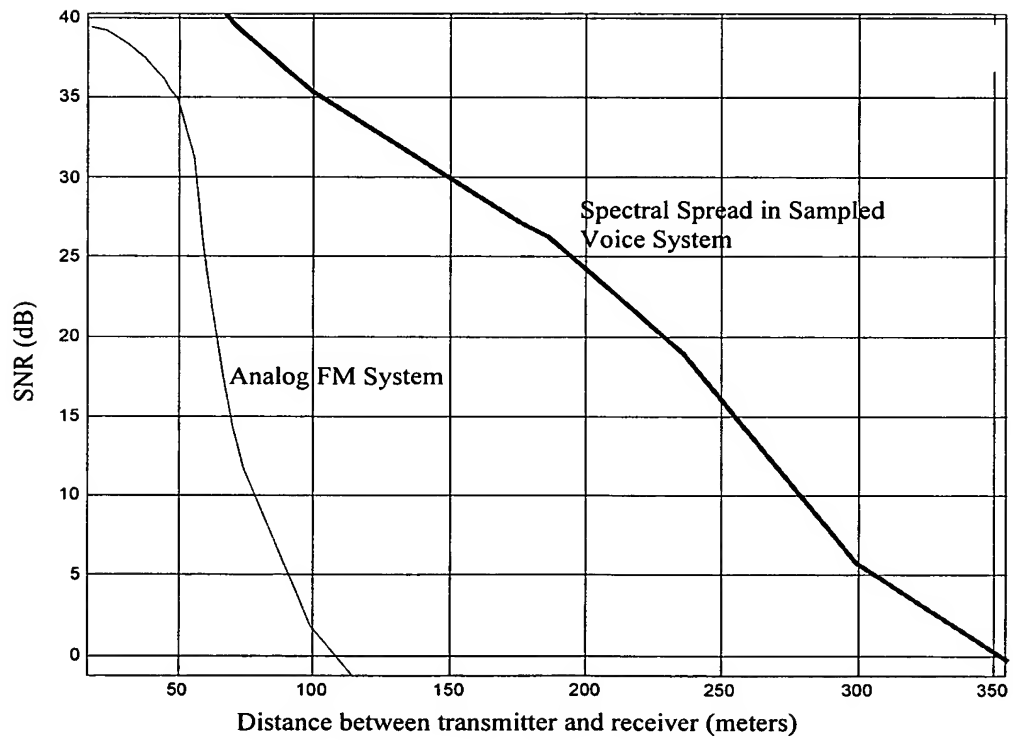


Table 1

Parameters of the Spectral Spread in Sampled Voice system used for comparison with the analog FM system	
Audio Bandwidth	200 Hz to 3.4 KHz
Communication period	70 μ s
PN length (number of chips)	15 chips
transmission time	30 μ s
receiving time	40 μ s
PN chip rate	500 Kbps
Carrier transmission bandwidth	1 MHz
Frequency deviation	10 KHz
Despreader filter bandwidth	18 KHz
Process gain	21dB
Maximum power spectral density	8dBm
Transmission power	20dBm
Tx and Rx antenna gain	0dBi
Transmission average power	20dBm

Table 2

Parameters of analog FM system used for comparison with the Spectral Spread in Sampled Voice system	
Audio Bandwidth	200 Hz to 3.4 KHz
Carrier transmission bandwidth	26 KHz
Frequency deviation	10 KHz
Tx and Rx antenna gain	0dBi
Transmission average power	-3dBm